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Anti-solarant co-doping of Ce-activated tunable UV laser materials and their laser performance

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Abstract

Anti-solarant co-doping of Ce-activated tunable ultraviolet (UV) laser materials and their laser performance were investigated. Activator ion fluorescence quenching and photochemical stability of the tunable UV laser materials was studied under UV pumping. The results show that the co-doping of Ce-activated tunable UV laser materials by rare earth element's ions reduces the absorption and improves laser performance of these materials.